

### Abstract of the Disclosure

A method of decompressing a set of subsampled image data is disclosed. The method includes reading a first subset of the subsampled image data into a cache memory and into a buffer, wherein the buffer has an amount of memory equal to or less than the  
5 cache memory, calculating chrominance values for at least some pixels of the subset of the subsampled image data to form decompressed image data, and outputting the decompressed image data.